	Application No.	Applicant(s)
Notice of Allowability	10/787,157	KIM, JI-SANG
	Examiner	Art Unit
	Olumide T. Ajibade-Akonai	2617
	Oldfilde 1. Ajibade-Akonal	2017
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject to	plication. If not included n will be mailed in due course. THIS
1. This communication is responsive to <u>8/27/2007</u> .		
2. The allowed claim(s) is/are 2-5 and 16-23.		,
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority ur</li> <li>a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> <li>2.  Certified copies of the priority documents have</li> <li>3.  Copies of the certified copies of the priority documents have</li> </ul>	be been received. be been received in Application No	
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.		
(a) 🔲 including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached		
1) 🗌 hereto or 2) 🗍 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying Indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
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Attachment(s)	6 D Notice of Information	Dakant Annikaskan
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Dotice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>	5. Notice of Informal F	• •
2. Motice of Draitperson's Faterit Drawing Review (F10-540)	6. ☐ Interview Summary Paper No./Mail Da	te
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. Examiner's Amendr	ment/Comment .
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Stateme	ent of Reasons for Allowance
of Biological Material	9.	
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## **DETAILED ACTION**

## Allowable Subject Matter

1. Claims 2-5, and 16-23 allowed.

The following is an examiner's statement of reasons for allowance:

2. Regarding claims 2 and 16, Chang 20030109243 discloses: a mobile device having an overcurrent cutoff function and at least one function module, the mobile device comprising: a main power supply which supplies power to the mobile device; a power detection unit which detects whether power from the main power supply to the mobile device is cut off, and generates a power cutoff signal when the power is cut off; a backup power supply unit which supplies a backup power to the mobile device when the power from the main power supply to the mobile device is cut off; and a control unit comprises application programs and an operating system, and runs the application programs or controls the at least one function module, and which-communicates data lines and control signal lines with the at least one function module, and then generates a backup power supply enable signal to enable the backup power supply unit to supply power. Saito 4,761,824 teaches converts potential levels of the data lines and control signal lines connected with the at least one function module to a predetermined potential level in response to the power cutoff signal. The instant invention discloses wherein the control unit further comprises: a flash ROM which stores the application programs to drive the at least one function module; a microprocessor driven by the application programs, and which communicates data with the function module and applies an output power of the backup power supply unit to the mobile device in

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response to the power cutoff signal; and a level conversion unit which converts the potential levels of the data lines and control signal lines to the predetermined potential level in response to the power cutoff signal. The above novel features are neither taught, suggested nor made obvious by Chang, Saito, or any other prior art of record. Claims 3,4, and 17-23 are allowable based on their being dependent on claims 2 and 16.

Regarding claim 5, Chang 20030109243 discloses: a mobile device having an overcurrent cutoff function and at least one function module, the mobile device comprising: a main power supply which supplies power to the mobile device; a power detection unit which detects whether power from the main power supply to the mobile device is cut off, and generates a power cutoff signal when the power is cut off; a backup power supply unit which supplies a backup power to the mobile device when the power from the main power supply to the mobile device is cut off; and a control unit comprises application programs and an operating system, and runs the application programs or controls the at least one function module, and which-communicates data lines and control signal lines with the at least one function module, and then generates a backup power supply enable signal to enable the backup power supply unit to supply power. Saito 4,761,824 teaches converts potential levels of the data lines and control signal lines connected with the at least one function module to a predetermined potential level in response to the power cutoff signal. The instant invention discloses wherein the power detection unit comprises: a slide switch having first, second, and third terminals, wherein the second and third terminals are connected in common;

a first resistor connected between the first terminal and the main power supply; and a second resistor connected between the third terminal and the ground, wherein a node is connected to the third terminal forming an output terminal for outputting the power cutoff signal. The above novel features are neither taught, suggested nor made obvious by Chang, Saito, or any other prior art of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Banh et al 6,526,294 discloses automatic control circuit for enabling and disabling the supply voltage in a short range wireless device.

Jung 5,239,695 discloses radio frequency power control circuit of mobile radiotelephone.

Barkat et al 5,862,493 discloses external power source to main battery power sources switch.

Lin 7,136,682 discloses a portable electronic system equipped with a spare battery device.

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Any inquiry concerning this communication or earlier communications from the

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examiner should be directed to Olumide T. Ajibade-Akonai whose telephone number is

571-272-6496. The examiner can normally be reached on M-F, 8.30p-5p.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Rafael Perez-Gutierrez can be reached on 571-272-7915. The fax phone

number for the organization where this application or proceeding is assigned is 571-

273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

OA OA

Rafael Perez-Gutierrez
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Technology Center 2600

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